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**UNITED STATE DISTRICT COURT  
NORTHERN DISTRICT OF CALIFORNIA  
SAN JOSE DIVISION**

6 JOSEPH TAYLOR, EDWARD MLAKAR,  
7 MICK CLEARY, EUGENE ALVIS, and  
JENNIFER NELSON, individually and on  
behalf of all others similarly situated,

Case No. 5:20-CV-07956-VKD

## Plaintiffs.

**[PROPOSED] STIPULATED ORDER ON  
PROTOCOL FOR DISCOVERY OF ESI**

V.

GOOGLE LLC.

Complaint Filed: Nov. 12, 2020  
First Amended Compl Filed: Dec. 13, 2021  
Courtroom: 2  
Judge: Hon. Virginia K. DeMarchi

**Defendant:**

Re: Dkt. No. 103

**MODIFIED BY THE COURT**

1        Plaintiffs Joseph Taylor, Edward Mlakar, Mick Cleary, and Eugene Alvis, individually  
 2 and on behalf of the putative class, and Google LLC (collectively, “the Parties” and each a  
 3 “Party”), by their respective counsel in the above-captioned action, stipulate to the following  
 4 procedures and protocols that shall govern the form of production of documents and  
 5 electronically stored information (“ESI”) in this matter.

6        IT IS HEREBY ORDERED as follows:

7        1.        The procedures and protocols set forth in this Stipulated Order on Protocol for  
 8 Discovery of ESI (“ESI Protocol”) govern the search and production of documents and ESI in  
 9 this matter unless the Parties agree in writing to change them or they are changed by the Court at  
 10 the request of a Party.

11 **A.      SCOPE**

12        2.        This ESI Protocol shall govern the production of documents and ESI. The Parties  
 13 agree that the claims and defenses at issue in this matter should be resolved in the most just,  
 14 speedy and inexpensive manner, and that discovery measures that do not reasonably or  
 15 meaningfully promote the resolution of the claims and defenses in this matter should be avoided  
 16 to reduce cost and time. To the extent that third parties may produce documents in this case, the  
 17 Parties agree to request that such third parties adopt this Agreement. This ESI Protocol shall  
 18 govern the Parties in the above-captioned case whether they currently are involved or become so  
 19 in the future, and any related actions that may later be consolidated with this case (collectively,  
 20 the “Litigation”).

21        3.        Nothing in this ESI Protocol shall supersede the provisions of any Stipulated  
 22 Protective Order. All productions shall be made pursuant to the Stipulated Protective Order.

23        4.        Nothing in this ESI Protocol shall be interpreted to require disclosure of irrelevant  
 24 information or relevant information protected by the attorney-client privilege, work-product  
 25 doctrine, or any other applicable privilege or immunity. The Parties do not waive any objections  
 26 as to the production, discoverability, admissibility, relevance, or confidentiality of documents

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1 and ESI. All objections to discovery requests are expressly preserved and shall be raised in due  
 2 course as permitted by the applicable civil and local rules.

3       5. Nothing in this ESI Protocol is intended or should be interpreted as narrowing,  
 4 expanding, or otherwise affecting the rights of the Parties or third parties to object to discovery  
 5 requests or a subpoena.

6       6. This Stipulation and Order is not intended to define all of the rights and  
 7 obligations of the Parties regarding the preservation of potentially discoverable documents and  
 8 ESI or the production of discoverable and responsive documents and ESI; to narrow or enlarge  
 9 any Party's obligations under applicable law to preserve potentially discoverable documents and  
 10 ESI; or to limit or enlarge any remedy that may be available under the applicable civil or local  
 11 rules for the breach of any such obligation.

12       7. To further facilitate the timely, efficient, and economical production of documents  
 13 and ESI in this case and to limit the Court's involvement in the discovery process to  
 14 circumstances where such involvement is necessary, the Parties may at any time, by an  
 15 agreement confirmed in writing, waive, modify, or resolve any ambiguity in any provision of this  
 16 Stipulation and Order.

17       8. To the extent any documents or data that previously were produced in any  
 18 litigation, investigation, or other proceeding are discoverable in this action, no Party shall be  
 19 required to reformat such previously produced documents or data, and all documents or data  
 20 produced in the same format as they were produced or collected in such other matters are  
 21 deemed to be in compliance with this Stipulation and Order when produced or otherwise made  
 22 available for use in this action, notwithstanding other provisions in this Stipulation and Order. A  
 23 Party may re-Bates stamp such materials. To the extent documents or other discovery were  
 24 produced in the matter *Csupo v. Google LLC*, Case No. 19-cv-352557 (Superior Ct., County of  
 25 Santa Clara) ("Csupo"), those materials may be used by any Party in the above-captioned matter  
 26 in their current form, without the need for those materials to be "reproduced" or re-Bates

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1 stamped. Any documents, other discovery, or information produced or otherwise developed or  
 2 provided in the *Csupo* matter will remain subject to the protective orders entered in that matter.

3       9. E-discovery will be limited to ESI in the Parties' custody, possession, or control  
 4 created on or after (or, for policies, procedures, rules, or regulations, regardless of when created,  
 5 those in force beginning on or after) August 9, 2016 for all other documents or ESI.

6       10. This ESI Protocol may be modified by a Stipulated Order of the Parties for good  
 7 cause shown or by the Court.

8 **B. ESI LIAISONS**

9       11. **Designation.** Each party agrees to designate one or more ESI Liaisons within ten  
 10 (10) days after entry of this ESI Protocol. Any party is free to change its designated ESI Liaisons  
 11 by providing written notice to the other parties.

12       12. **Duties of ESI Liaisons.** Each ESI Liaison will be prepared to participate in the  
 13 resolution of any e-discovery disputes or ESI issues that may arise (or designate another person  
 14 as primarily responsible), be knowledgeable about the party's eDiscovery efforts, have  
 15 reasonable access to personnel most knowledgeable about the Party's electronic systems and  
 16 capabilities in order to, as appropriate, explain those systems and answer relevant questions,  
 17 including the location, nature, accessibility, format, collection, search methodologies, and  
 18 production of ESI in this matter, and have reasonable access to those who are knowledgeable  
 19 about the technical aspects of eDiscovery, including electronic document storage, organization,  
 20 and format issues, and relevant information retrieval technology, including search methodology.  
 21 The parties will rely on the liaisons, as needed, to confer about ESI and to help resolve disputes  
 22 without court intervention.

23 **C. PRESERVATION**

24       13. The Parties are aware of their preservation obligations as set forth in the Federal  
 25 Rules of Civil Procedure and the case law of this Circuit, and have discussed their preservation  
 26 obligations and needs and agree that preservation of potentially relevant ESI will be reasonable  
 27 and proportionate. To reduce the costs and burdens of preservation and to ensure proper ESI is  
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1 preserved, the Parties agree that they will take reasonable steps to preserve information and  
 2 documents (including metadata) that are potentially relevant to this litigation, subject to  
 3 reasonable limitations, which includes the limitations on—and consequences for—automatic  
 4 deletion of temporary data encompassed by Federal Rule of Civil Procedure 37(e).

5       14. The Parties agree that the following data sources, although they may contain  
 6 relevant information, are not reasonably accessible because of undue burden or cost, and need  
 7 not be preserved, searched, reviewed, or produced absent a good cause showing of a  
 8 particularized need for the data as established by the facts and legal issues of the case:

- 9           a. Deleted, slack, fragmented, or other data only accessible by forensics;
- 10          b. Random access memory (RAM), temporary files, or other ephemeral data  
               that are difficult to preserve without disabling the operating system;
- 11          c. On-line access data such as temporary internet files, history, cache,  
               cookies, and the like;
- 12          d. Back-up data that is substantially duplicative of data that are more  
               accessible elsewhere;
- 13          e. Data remaining from systems no longer in use that is unintelligible on the  
               systems in use;
- 14          f. Viruses; and
- 15          g. Other forms of ESI whose preservation requires extraordinary affirmative  
               measures that are not utilized in the ordinary course of business.

16       15. To the extent a Party identifies potentially responsive ESI that falls under subparts  
 17           Paragraph 14  
 18       (e) or (g) of ~~this Paragraph~~, it shall inform the Requesting Party in writing of its existence and  
 19       identify how it may be relevant. Should the Requesting Party believe the information may be  
 20       relevant to the claims and defenses and proportional to the needs of the case, the Requesting  
 21       Party can request a meet and confer to discuss.

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1       16. Notwithstanding paragraph 14, the Parties shall preserve the data sources  
 2 identified in paragraph 14 if required by their respective document retention policies and/or  
 3 procedures.

4       17. Whether or not ESI is password protected does not impact obligations with regard  
 5 to preservation. Upon request from the Receiving Party, Producing Party shall provide the  
 6 requested password(s) if reasonably available. If the Producing Party determines in good faith  
 7 that the Receiving Party's request(s) for the password(s) becomes too burdensome, then the  
 8 Producing Party shall follow the dispute procedures in Judge DeMarchi's Standing Order for  
 9 Civil Cases (effective April 10, 2024) as set forth at <https://www.cand.uscourts.gov/wp-content/uploads/2023/03/Standing-Order-for-Civil-Cases-April-2024.pdf>.

11      18. Subject to the Parties' responses and objections to written discovery, should  
 12 relevant, responsive, non-privileged documents no longer exist in the Party's possession or  
 13 control due to deletion, destruction, or other means of disposal, the Producing Party will  
 14 endeavor to describe the contents or subject matter of the documents or ESI to the extent such  
 15 information is known or knowable through reasonable efforts, as well as endeavor to identify the  
 16 date upon which the documents or ESI were deleted or destroyed.

17 **D. IDENTIFICATION AND COLLECTION**

18      19. The Parties agree to meet and confer in an effort to agree upon the following: (a)  
 19 custodians from whom information will be collected or produced (including their job title,  
 20 description of duties, and employment dates); (b) data sources, including custodial, non-  
 21 custodial, and third-party documents, which will be collected or produced; (c) the identity and  
 22 scope of sources of documents and ESI to be produced without the use of technology-assisted  
 23 review or search terms; (d) applicable timeframe for collection and review of documents; and (e)  
 24 prioritization of categories of documents and ESI to be collected, reviewed, and produced.

25      20. Nothing in this stipulation is intended to augment or limit the rights of a party to  
 26 pursue information similar to the information identified in Paragraph 19 in the usual course of  
 27 discovery and any such discovery requests will be governed by existing law and standards.

1       21. **Databases, Structured, Aggregated or Application Data.** The Parties will meet  
 2 and confer to discuss their own databases and non-custodial sources that they believe contain  
 3 information that is relevant to the claims and defenses and proportional to the needs of the case,  
 4 and to discuss search methods for the same when the parties meet and confer to discuss  
 5 custodians. The Parties reserve all rights in connection with database discovery responsive to any  
 6 future-served Request for Production.

7       22. **Chats and Instant Messaging.** To the extent instant messages (e.g., text  
 8 messages, WhatsApp, Slack, iMessage, Teams, G-Chat, Google Chat, Google Groups  
 9 communications, Google Conversations, Bloomberg, etc.) are produced, a Party shall produce  
 10 such messages, whenever reasonably feasible, with other contemporaneous messages in the same  
 11 thread—and no party will cause messages that are already associated in a thread to be produced  
 12 individually. However, nothing in this paragraph is intended to require a party to create new  
 13 threading if messages are not stored in threaded formats or to produce messages other than in the  
 14 manner in which they are stored. Such instant messages will also be produced with the metadata  
 15 consistent with the requirements and procedures set forth in Appendix <sup>1</sup>I and to the extent  
 16 feasible.

17       23. **Hyperlinks and network location.** Plaintiffs on the one hand, and Google on the  
 18 other, are presumptively limited to requesting 500 hyperlinks each in the *Taylor* matter. Should a  
 19 Party believe in the future that additional hyperlink requests are reasonable and proportional to  
 20 the needs of the case at the time, the Parties can agree to an additional number of requests. If the  
 21 Parties do not agree, the Requesting party can initiate the dispute procedures in Judge  
 22 DeMarchi's Standing Order for Civil Cases (effective April 10, 2024) as set forth at  
 23 [https://www.cand.uscourts.gov/wp-content/uploads/2023/03/Standing-Order-for-Civil-Cases-](https://www.cand.uscourts.gov/wp-content/uploads/2023/03/Standing-Order-for-Civil-Cases-April-2024.pdf)  
 24 [April-2024.pdf](https://www.cand.uscourts.gov/wp-content/uploads/2023/03/Standing-Order-for-Civil-Cases-April-2024.pdf). Parties may request hyperlinks only where they have a good faith belief that the  
 25 hyperlinks link to documents that are relevant to this matter and proportional to the needs of  
 26 discovery. When such requests are made, the Party that produced the document containing the  
 27 hyperlink will have 21 days to collect and, where appropriate and reasonably feasible, produce  
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1 the requested hyperlinks, along with an index associating the produced document with the  
 2 document that contained the hyperlink from which it was collected. The Parties further recognize  
 3 that a motion pending before the court in the *Csupo* matter seeks the relief that requested  
 4 hyperlinks, that can be feasibly collected and that are not privileged, be produced, regardless of  
 5 whether the producing party deems them responsive to a Request for Production, and that a  
 6 producing party provide an index showing when a hyperlink was not produced due to a technical  
 7 or other issue. The Parties agree that in the event that the *Csupo* court orders this relief, the  
 8 Parties will act consistently with such order in connection with hyperlinks requested under this  
 9 paragraph in the above-captioned matter.

10 **E. SEARCH METHODOLOGIES**

11       24. The parties agree to meet and confer about methods to search ESI in order to  
 12 identify ESI that is subject to production in discovery and filter out ESI that is not subject to  
 13 discovery.

14       25. The parties will meet and confer in good faith regarding search terms or use of  
 15 technology-assisted review or a similar tool (collectively “TAR”) to identify responsive  
 16 documents. In the event a party elects to use search terms, if a requesting party objects to the  
 17 sufficiency of the Producing Party’s terms, the requesting Party may propose modifications or a  
 18 list of additional terms. The parties will meet and confer in good faith regarding any proposed  
 19 changes. Any disputes over search terms that cannot be resolved between the parties during a  
 20 meet and confer may be consequently raised with the Court.

21       26. **Hit Reports.** When a Requesting Party proposes additional search terms, the  
 22 Producing Party will provide within two weeks a hit report for each document collection where  
 23 the terms were applied, including the following with respect to each proposed or modified search  
 24 term in the collection:

25           a. The number of documents with hits for that term;  
 26           b. The number of unique documents, i.e., documents which do not have hits  
 27                   for any other term;

1                   c.     The number of family members, including the documents with hits, of the  
 2                   documents with hits for that term.

3               27.     Nothing in this Order may be construed or interpreted as precluding a Producing  
 4     Party from performing a responsiveness review to determine if documents captured by search  
 5     terms are in fact responsive to the requesting party's request. No party will use TAR to identify  
 6     documents responsive to search terms in use in the case that will not be reviewed without first  
 7     disclosing as much, and the nature of the TAR procedures to be used, and meeting and  
 8     conferring with the other Parties.

9               28.     The fact that one or more search terms is found in a file, document, or other ESI  
 10    does not establish relevance, responsiveness, or discoverability.

11              29.     A Party's use of search terms (or TAR) to identify relevant ESI for review and  
 12    production will not relieve it of its obligations under the applicable rules of civil procedure to  
 13    produce materials properly within the scope of discovery. A Party will produce documents and  
 14    ESI it knows to be responsive and discoverable, regardless of whether the materials hit on any  
 15    agreed-upon search terms (or TAR).

16              30.     If a Producing Party has reason to believe that responsive documents are in a  
 17    language other than English, the Party will include in its proposed search terms any translated  
 18    search term it proposes to use.

19              31.     **Cooperation.** The Parties agree to work together in good faith to resolve any  
 20    differences that they may have over the Producing Party's use of search terms, TAR, or a  
 21    combination of the search terms and TAR, or some other method, or for documents that cannot  
 22    be searched electronically.

23 **F. PRODUCTION**

24              32.     The Parties agree to produce documents in the formats described in Appendix 1 to  
 25    this Order. If particular documents warrant a different format, the Parties will cooperate to  
 26    arrange for the mutually acceptable production of such documents. The Parties agree not to  
 27    degrade the searchability of documents as part of the document production process.

1       33. In order to reduce the number of requests for admission, this Order establishes a  
2 rebuttable presumption that documents produced by the Parties are authentic, if said documents  
3 were either created or authored by the Producing Party, or any of its employees, agents or  
4 contractors, so long as the agent or contractors' work was performed in connection with a  
5 project, assignment or clinical trial sponsored by the Producing Party. No further evidence to  
6 establish authenticity need be provided.

7 **G. THIRD-PARTY ESI**

8       34. A Party that issues a non-party subpoena (the "Issuing Party") shall include a  
9 copy of this ESI Protocol with the subpoena and state that the Parties to the litigation have  
10 requested that third-parties produce documents in accordance with the specifications set forth  
11 herein. If a Party issued a non-party subpoena prior to the execution of this Stipulation and  
12 Order, that Party shall promptly forward a copy of this Stipulation and Order to the non-party  
13 and request that the non-party produce documents in accordance with the specifications set forth  
14 herein.

15       35. The Issuing Party is responsible for producing any documents obtained under a  
16 subpoena to all other Parties within 21 days.

17       36. If the Issuing Party receives any hard-copy documents or native files, the Issuing  
18 Party will process the documents in accordance with the provisions of this ESI Protocol, and then  
19 produce the processed documents to all other Parties.

20       37. However, any documents the Issuing Party does not intend to process for its own  
21 use may be disseminated to all other Parties in the format in which such documents are received  
22 by the Issuing Party. If the Issuing Party subsequently processes any such documents, the Issuing  
23 Party will produce those processed documents to all other Parties.

24       38. Reproductions or productions acquired from non-parties may be produced in the  
25 electronic format that they were originally produced or received from the non-party, and need  
26 not otherwise be produced in accordance with the terms of this Stipulation and Order. If the non-  
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1 party production is not Bates-stamped, the Issuing Party may endorse the non-party production  
 2 with unique prefixes and Bates numbers prior to producing them to all other Parties.

3       39. Nothing in this Stipulation and Order is intended to or should be interpreted as  
 4 narrowing, expanding, or otherwise affecting the rights of the Parties or non-parties to object to a  
 5 subpoena.

6 **H. PRIVILEGE AND PRIVILEGE LOGGING**

7       40. Pursuant to Fed. R. Evid. 502(d), the production of a privileged or work-product-  
 8 protected document, whether inadvertent or otherwise, is not a waiver of privilege or protection  
 9 from discovery in this case or in any other federal or state proceeding. For example, the mere  
 10 production of privileged or work-product-protected documents in this case as part of a mass  
 11 production is not itself a waiver in this case or in any other federal or state proceeding.

12       41. Communications involving trial counsel that post-date the filing of the complaint  
 13 need not be placed on a privilege log.

14       42. The Parties agree to produce a privilege log no later than 30 days after the date of  
 15 a production from which the document would otherwise have been produced but was withheld.  
 16 A Party's failure to provide a privilege log within the time set forth herein shall not by itself  
 17 constitute a waiver of any privilege. However, the Parties shall not unreasonably fail to provide a  
 18 privilege log within the time set forth herein.

19       43. The Party producing a privilege log will indicate persons identified on the log that  
 20 are attorneys either by providing a list of such persons or otherwise marking such persons with a  
 21 symbol or other method.

22       44. The Party producing a privilege log will provide the privilege log in Excel format,  
 23 upon request.

24       45. If any disputes arise concerning any privilege log, the Parties shall meet and  
 25 confer to try to reach a mutually agreeable solution. If they cannot agree, the matter may be  
 26 brought to the Court in accordance with the Court's procedure for discovery disputes.

1       46. The Parties agree that redactions made solely on the basis that content within a  
2 document is not responsive are not proper absent special circumstances. If a party seeks to redact  
3 on responsiveness grounds, it must disclose as much. If the parties are unable to agree, the  
4 dispute will be resolved pursuant to the procedures in Judge DeMarchi's Standing Order for  
5 Civil Cases (effective April 10, 2024) as set forth at <https://www.cand.uscourts.gov/wp-content/uploads/2023/03/Standing-Order-for-Civil-Cases-April-2024.pdf>.

7 **I. MISCELLANEOUS PROVISIONS**

8       47. **Motions.** The parties shall raise discovery disputes in accordance with the  
9 Individual Practices of Judge Virginia K. DeMarchi, including but not limited to Judge  
10 DeMarchi's Standing Order for Civil Cases (effective April 10, 2024) as set forth at  
11 <https://www.cand.uscourts.gov/wp-content/uploads/2023/03/Standing-Order-for-Civil-Cases-April-2024.pdf>.

13       48. **Costs of Document Production.** Unless this Court orders otherwise, each party  
14 and non-party shall bear the costs of collecting, processing, reviewing, and producing its own  
15 documents.

16       49. **Integration/Appendices.** The following documents are incorporated herein by  
17 reference: "Appendix 1" is a document describing the production format and fields to be  
18 included in the documents produced by each party.

19       50. To the extent relevant and deemed admissible, and consistent with Paragraph 8,  
20 supra, ESI produced in the *Csupo* litigation may be used in this litigation. Nothing in this  
21 paragraph is intended, however, to waive any objections the Parties may raise as to the  
22 production, discoverability, admissibility, relevance, or confidentiality of documents and ESI.

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1           **IT IS STIPULATED.**  
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3 Dated: August 2, 2024

Respectfully submitted,

4 COOLEY LLP  
5

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PURSUANT TO THE PARTIES' STIPULATION, AS MODIFIED BY THE COURT,

1           **IT IS SO ORDERED.**

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3           Dated: August 5, 2024

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*Virginia K. Demarchi*

VIRGINIA K. DEMARCHI  
United States Magistrate Judge

## **APPENDIX 1: PRODUCTION FORMAT**

**1. Load File Formats.** When reasonably feasible, ESI will be produced with a standard Relativity (\*.dat) load file format and an image load file that is in .OPT format. The Relativity (\*.dat) load file shall be provided with UTF-8 encoding.

**2. Metadata Fields and Metadata File.** Each of the metadata and coding fields set forth below that can be reasonably extracted shall be produced for each document. The parties are not obligated to populate manually any of the fields below if such fields cannot be extracted from a document or otherwise alter their standard collection methods for ESI to capture fields that are otherwise not captured, with the exception of the following: BEGBATES, ENDBATES, BEGATTACH, ENDATTACH, CUSTODIAN, ALLCUSTODIANS, CONFIDENTIALITY, and REDACTIONS, which should be populated by the party or the party's vendor. If a particular field is not applicable to a particular document and is not otherwise required to be populated, the field will be left blank.

| Field          | Definition   |
|----------------|--|
| CUSTODIAN      | Name of person or other data source (non-human) from where documents/files are produced. Where redundant names occur, individuals should be distinguished by an initial which is kept constant throughout productions (e.g., Smith, John A. and Smith, John B.). |
| ALL CUSTODIANS | All persons or data where the document was found prior to deduplication.   |
| BEGBATES       | Bates (number) of the first page of the document.  |
| ENDBATES       | Bates number of the last page of the document.   |
| BEGATTACH      | First Bates number of family range (i.e. Bates number of the first page of the parent e-mail).   |
| ENDATTACH      | Last Bates number of family range (i.e. Bates number of the last page of the last attachment).   |
| FILESIZE       | File Size.   |
| FILENAME       | Filename of an electronic document (Edoc or attachment).   |
| FILE EXTENSION | The file extension.  |

| Field                   | Definition   |
|-------------------------|--|
| FILEPATH                | Original file/path of the location where the item was located at the time of collection. If an email extracted from a container, e.g., from a .pst file, it should contain the name and location of the email container, and the folder within the container from which the email was collected. |
| ALL FILEPATHS           | The locations where copies of the item were located at the time of collection.   |
| TITLE                   | Title provided by user within the document.  |
| AUTHOR                  | Creator of a document.   |
| DATE/TIME CREATED       | Date Create & Time (MM/DD/YYYY HH:MM)* may be produced as two separate fields.   |
| LAST MODIFIED BY        | Last person who modified (saved) a document.   |
| DATE/TIME LAST MODIFIED | Last Modified Date & Time (MM/DD/YYYY HH:MM)* may be produced as two separate fields.  |
| FROM                    | Sender.  |
| TO                      | Recipient.   |
| CC                      | Additional Recipients.   |
| BCC                     | Blind Additional Recipients.   |
| SUBJECT                 | Subject line of e-mail.  |
| FAMILY DATE             | If the document was part of a family, e.g., an email attachment, the date of the parent document.  |
| DATE/TIME SENT          | Date Sent & Time (MM/DD/YYYY HH:MM)* may be produced as two separate fields (Date Sent and Time Sent).   |
| DATE/TIME RECEIVED      | Date Received & Time (MM/DD/YYYY HH:MM)* may be produced as two separate fields.   |
| ATTACHCOUNT             | Number of attachments to an e-mail.  |
| ATTACHNAMES             | Names of each individual Attachment, separated by semi-colons.   |
| EMAIL OUTLOOK TYPE      | Type of Outlook item, e.g., e-mail, calendar item, contact, note, task.  |
| HASHVALUE               | MD5 hash value.  |
| IMPORTANCE              | High Importance - indicates Priority E-mail message.   |

| Field                       | Definition  |
|-----------------------------|---|
| PAGE COUNT                  | Page count or image count.  |
| REDACTED                    | Descriptor for documents that have been redacted. “Yes” for redacted documents; “No” for un-redacted documents. |
| DOCLINK                     | Metadata tying linked and linking documents.  |
| NATIVEFILELINK              | For documents provided in native format only.   |
| TEXTPATH                    | File path for OCR or Extracted Text files.  |
| CONFIDENTIALITY             | Confidentiality level if assigned pursuant to any applicable Protective Order or stipulation.                   |
| TIME ZONE PROCESSED         | Time zone (i.e. UTC) data was processed.  |
| HASHIDDENTEXT               | Y, N or empty.  |
| HASHIDDENSLIDES             | Y, N or empty.  |
| HASSPEAKERNOTES             | Y, N or empty.  |
| HASHIDDENROWS               | Y, N or empty.  |
| HASHIDDECOLUMNS             | Y, N or empty.  |
| HASHIDDENWORKSHEETS         | Y, N or empty.  |
| DOCUMENT TYPE               | The file type for Google files.   |
| DOC ID                      | Google Drive unique identifier.   |
| DRIVE OTHERS                | The accounts from a Google Drive query that have indirect access to the file.                                   |
| DRIVE SITES TITLE           | Metadata included with Google Drive exports for sites, including the name of the page.                          |
| DRIVE PUBLISHED URL         | Metadata included with Google Drive exports for sites, including the web address of the published page.         |
| DRIVE DOC PARENT ID         | Metadata included with Google Drive exports for sites, including a unique identifier for the site.              |
| DRIVE SHARED DRIVE ID       | The Google Drive identifier of the shared drive that contains the file.   |
| DRIVE CLIENT SIDE ENCRYPTED | In Google Drive, indicates the file was encrypted with Google Workspace Client-side encryption.                 |

| Field            | Definition  |
|------------------|---|
| DRIVE REVIEWS    | Google Drive metadata regarding file approvals.   |
| DRIVE USER QUERY | The Google Drive query submitted by the Vault user that retrieved the files included in the export. |

3. **TIFF Images.** Documents that exist only in hard copy format shall be scanned and produced as TIFFs. Documents that exist as ESI shall be converted and produced as TIFFs, except as provided below. The imaged data shall retain all attributes of the native or hard-copy file to the extent reasonably practicable, and all produced documents shall not be rasterized in such a manner that they become unreadable. To the extent reasonably practicable, a produced TIFF image will show all text and images that are visible in the form in which the electronic document was last saved, with the exception of portions redacted for privilege. Hidden content, tracked changes or edits, comments, notes, and other similar information, shall to the extent reasonably practicable, be produced in native or Microsoft-equivalent format, or be imaged so that such content is viewable on the image file. Where hidden content, tracked changes or edits, comments, notes, or other similar information is not readable in its produced format, a party that received the document may make reasonable requests that a more readable version, such as a native or Microsoft-equivalent version, be produced when helpful to interpret the contents of the relevant document. To the extent a response to discovery requires production of Document(s) accessible only through proprietary or enterprise software, the Parties shall meet and confer to finalize the appropriate production format. Unless excepted below, single page, black and white, Group IV TIFFs should be provided, at least 300 dots per inch (dpi) for all documents where reasonably possible, with corresponding multi-page text and necessary load files. A Party may request that the other Party produce specific, identified documents at a higher dpi, if reasonably necessary to review the document. Each TIFF image shall be named according to a unique corresponding Bates number associated with the document. Each image shall be branded according to the Bates number and the agreed upon confidentiality designation. Original document orientation should be maintained (i.e., portrait to portrait and landscape to landscape).

1 Documents that are difficult to render in TIFF because of technical issues, or any other  
2 documents that are impracticable to render in TIFF format, may be produced in their native  
3 format with a placeholder TIFF image stating “Document Produced Natively.” A Producing  
4 Party retains the option to produce ESI in alternative formats if so agreed by the requesting party,  
5 which may include native format, or a combination of native and TIFF formats. For future  
6 productions of documents responsive to properly propounded requests issued pursuant to Fed. R.  
7 Civ. P. 34 and 45, the Producing Party will make reasonable efforts to identify documents with  
8 readability issues in advance of production and, where issues are detected, to produce the  
9 document(s) in a more readable format (such as in native or Microsoft-equivalent form). To the  
10 extent the TIFF image is unreadable or has materially degraded the quality of the original, the  
11 Producing Party shall, when requested and where possible and proportionate, provide a higher  
12 quality TIFF image, or the native, Microsoft-equivalent, or original file. The provisions of this  
13 Appendix 1 apply to any type of document (including emails, presentations, spreadsheets, and  
14 other types of documents).

15       4. **Native Files.** Spreadsheets (e.g. MS Excel), audio or video media files,  
16 documents that contain images in scalable graphics formats, and structured data will be produced  
17 in native format unless redacted for privilege. The Parties reserve the right to request, and oppose  
18 a request, that PowerPoint presentations be produced in native. In the event spreadsheets require  
19 redactions for privilege, they shall be produced in Microsoft-equivalent format (.xls, .xlsx). In  
20 the event structured data requires redactions for privilege, it should be produced in JSON or a  
21 suitable delimited format, where each redacted structure and any substructures are identified by  
22 name and the redacted data is clearly marked to reflect the redaction. If a Requesting Party  
23 reasonably determines that a redacted file is not reasonably usable, the Requesting Party and the  
24 Producing Party will discuss an alternative method to produce the file in a reasonably usable  
25 format.

26       5. Native files shall be produced with a link in the NATIVEFILELINK field, along  
27 with extracted text (where extracted text is available) and applicable metadata fields set forth  
28

1 above. A Bates numbered TIFF placeholder indicating that the document was provided in native  
 2 format must accompany every native file. Any file produced in native file format shall be given a  
 3 file name consisting of a unique Bates number and, as applicable, a confidentiality designation;  
 4 for example, “ABC00000002\_Confidential.” For each native file produced, the production will  
 5 include a \*.tiff image slipsheet indicating the production number of the native file and the  
 6 confidentiality designation, and stating “File Provided Natively.” To the extent that it is  
 7 available, the original document text shall be provided in a document-level multi-page UTF-8  
 8 text file with a text path provided in the \*.dat file; otherwise the text contained on the slipsheet  
 9 language shall be provided in the \*.txt file with the text path provided in the \*.dat file. Native  
 10 files will be produced in a separate folder on the production media.

11       **6. Request for Other Native Files.** Other than as specifically set forth above, a  
 12 Producing Party need not produce documents in native format. If a party would like a particular  
 13 document produced in native format and this ESI protocol does not require the production of that  
 14 document in its native format, the party making such a request shall explain the reason for its  
 15 request that the document be produced in its native format. The requesting party will provide a  
 16 specific Bates range for documents it wishes to be produced in native format. The Producing  
 17 Party need only produce such a document in native format if reasonably practicable. Any native  
 18 files that are produced should be produced with a link in the NATIVEFILELINK field, along  
 19 with all extracted text and applicable metadata fields set forth above.

20       **7. Text Files.** Each document, whether produced in Native or in TIFF format, and  
 21 whether originally existing in electronic or in hard copy, shall be produced with extracted text or  
 22 Optical Character Recognition (“OCR”), as described herein.

23       Extracted text shall include all comments, revisions, tracked changes, speaker’s  
 24 notes and text from documents with comments or tracked changes, and hidden worksheets,  
 25 slides, columns and rows. Text extracted from emails shall include all header information that  
 26 would be visible if the email was viewed in Outlook including: (1) the individuals to whom the  
 27 communication was directed (“To”), (2) the author of the email communication (“From”), (3)  
 28

1 who was copied and blind copied on such email (“CC” and “BCC”), (4) the subject line of the  
 2 email (“RE” or “Subject”), (5) the date and time of the email, and (6) the names of any  
 3 attachments.

4       9. In the event a document, other than spreadsheets, e.g., Excel files, contains text  
 5 that is to be redacted for privilege, OCR text files should be provided for any un-redacted  
 6 portions of the documents. Document-level OCR text files shall also be provided for all hard  
 7 copy scanned documents. OCR software must be set to the highest quality setting for any  
 8 previously unscanned paper documents, and reasonable quality control measures shall be used to  
 9 ensure that the integrity of scanned copies of previously unscanned paper documents are  
 10 preserved for OCR (e.g., pages are not angled or skewed, text is not blurred or obscured, etc.).  
 11 Documents containing foreign language text must be OCR’d using the appropriate settings for  
 12 that language, (e.g., OCR of Asian language documents must properly capture the relevant Asian  
 13 characters). Settings such as “auto-deskew” and “auto-rotation” must be turned on during the  
 14 OCR process to maximize text recognition on any given page.

15       10. The extracted full text and/or OCR text for all deliverables should be in separate  
 16 document-level, UTF-8 TXT files provided in a separate folder.

17       11. **Document Numbering.** Document numbering should be consistent across the  
 18 production, contain no special characters, and be numerically sequential within a given  
 19 document. If a document number or set of document numbers is skipped, the skipped number or  
 20 set of numbers should be noted with a placeholder. Attachments to documents will be assigned  
 21 document numbers that directly follow the document numbers on the documents to which they  
 22 were attached. In addition, wherever possible, each \*.tiff image will have its assigned Bates  
 23 number electronically “burned” onto the image. The document number will:

- 24           a. Be consistent across the production;
- 25           b. Contain no special characters (for the avoidance of doubt, Bates  
                  numbering may include hyphens); and
- 26           c. Be numerically sequential within a given document.

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1       12. **De-NISTing.** Electronic files will be De-NISTed, removing commercially  
 2 available operating system and application file information contained on the current NIST file  
 3 list.

4       13. **Deduplication.** The Parties shall make reasonable efforts to de-duplicate ESI.  
 5 ESI produced by the Parties shall be globally de-duplicated across all collected custodial and  
 6 non-custodial sources. Documents are considered exact duplicates if a document family or stand-  
 7 alone file has a matching MD5 or SHA-1 hash value as compared against the same document  
 8 type (i.e., family or stand-alone file). Hash values of emails will be calculated on the  
 9 concatenated values of at least the following fields: From, To, CC, BCC, Subject, Date Sent,  
 10 Time Sent, Attachment Names, Body, and the hash values of all attachments. The names of all  
 11 custodians and non-custodial sources who were in possession of a document prior to  
 12 deduplication will be populated in the ALL CUSTODIANS metadata field.

13       14. **Email Threading.** A party is required to produce only a single copy of a  
 14 responsive document, and a party may de-duplicate responsive ESI across Custodians. A party  
 15 may also de-duplicate email threads and attachments as follows: In an email thread, only the  
 16 most evolved responsive email in a thread will be produced. Where an earlier-in-thread email has  
 17 a responsive attachment not contained within the most evolved responsive email, the most  
 18 evolved earlier-in-thread email containing the attachment will also be produced along with its  
 19 attachment.

20       15. **Time Zone.** All provided metadata pertaining to dates and times will be  
 21 standardized to UTC.

22       16. **Production Format for Hard Copy Documents.** Documents that exist in  
 23 hardcopy will be scanned to \*.tiff image format and produced with a load file, single page TIFF  
 24 images in the same format as electronic files, except the metadata fields provided will be limited  
 25 to those above to the extent the metadata is reasonably available. For a scanned hard copy, OCR  
 26 text will be provided instead of extracted text. In scanning paper documents, distinct documents  
 27 should not be merged into a single record, and single documents should not be split into multiple  
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1 records (*i.e.*, paper documents should be logically unitized<sup>1</sup>). In the case of an organized  
 2 compilation of separate documents (for example, a binder containing several separate documents  
 3 behind numbered tabs), the document behind each tab should be scanned separately, but the  
 4 relationship among the documents in the compilation should be reflected in the proper coding of  
 5 the beginning and ending document and attachment fields. A Producing Party will make their  
 6 best efforts to unitize the documents correctly.

7       **17. Confidentiality Designation.** Responsive documents in TIFF format will be  
 8 stamped with the appropriate confidentiality designations in accordance with the Protective  
 9 Order entered in this matter. Each responsive document produced in native format will have its  
 10 confidentiality designation identified in the filename of the native file, indicated on its  
 11 corresponding TIFF placeholder, and contained in the Confidentiality metadata field.

12       **18. Redactions.** Any redactions for privilege shall be clearly indicated on the face of  
 13 the document, with each redacted portion of the document stating that it has been redacted and  
 14 the basis for the redaction, and a metadata field shall indicate that the document contains  
 15 redactions and the basis for the redaction (*e.g.*, “Privilege”). Where a responsive document  
 16 contains both redacted and non-redacted content, the parties shall produce the remainder of the  
 17 non-redacted portions of the document and the text/OCR corresponding to the non-redacted  
 18 portions. Nothing in this Order prevents any party from redacting personal data and personally  
 19 identifying numbers or sensitive information from produced documents.

20       **19.** All TIFF images of redacted native files shall be processed to show and reveal all  
 21 comments, revision marks, speaker notes, or other user-entered data which are visible in any  
 22 view of the document in its native application. Email header information (*e.g.* date, subject line,  
 23 etc.) should not be redacted unless it is independently privileged. The production of a document  
 24 in a redacted form does not affect the Parties’ obligation to timely assert and substantiate the  
 25 assertion of privilege over the content in a privilege log. The Parties shall honor reasonable

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26       <sup>1</sup> Logical Unitization is the process of human review of each individual page in an image  
 27 collection using logical cues to determine pages that belong together as documents. Such cues can  
 28 be consecutive page numbering, report titles, similar headers and footers, and other logical  
 indicators.

1 requests for the production of particular redacted documents in other formats where the TIFF  
 2 image is not reasonably usable.

3       **20. Non-English Documents.** To the extent that Documents are produced that  
 4 contain languages other than English, in whole or in part, the Producing Party shall produce each  
 5 such Document in the original language or languages in which it was written when collected.  
 6 The Producing Party has no obligation to create a translation of the Documents or any portion.  
 7 The Parties will meet and confer concerning procedures for using translations at depositions and  
 8 at trial. In the event the Parties cannot reach agreement, the matter may be submitted to the Court  
 9 for determination.

10      **21. Mobile and Handheld Device Documents and Data.** If responsive data that can  
 11 reasonably be extracted and produced in the formats described herein is identified on a mobile or  
 12 handheld device, that data shall be produced in accordance with the generic provisions of this  
 13 protocol. To the extent that responsive data identified on a mobile or handheld device is not  
 14 susceptible to normal production protocols, the Parties will meet and confer to address the  
 15 identification, production, and production format of any responsive documents and data  
 16 contained on any mobile or handheld device.

17      **22. Embedded Files.** Embedded files, except for images embedded in emails, are to  
 18 be produced as family groups. Embedded files should be assigned Bates numbers that directly  
 19 follow the Bates numbers on the documents within which they are embedded.

20      **23. Parent-Child Relationships.** Parent-child relationships (the association between  
 21 an attachment and its parent document or between embedded documents or linked internal or  
 22 non-public documents and their parents) shall be preserved. Attachments should be  
 23 consecutively produced with their parent.

24      **24. Family Groups.** A document and all other documents in its attachment range,  
 25 emails with attachments, and files with extracted embedded OLE documents. If any member of a  
 26 family group is produced, all members of that group must also be produced or else logged as  
 27 privileged.

1       25. **Color.** For any document not produced in color in the first instance, if good  
2 cause exists for the Receiving Party to request production of certain documents color, the  
3 Receiving Party may request production of such documents in color by providing: (1) a list of the  
4 Bates numbers of documents it requests to be produced in color format; and (2) an explanation of  
5 the need for production in color format. The Producing Party shall not unreasonably deny such  
6 requests and will produce the color documents promptly following a request.

7       26. **Proprietary Software.** To the extent that relevant ESI cannot be rendered or  
8 reviewed without the use of proprietary software, the Parties shall meet and confer to minimize  
9 any expense or burden associated with the production of such documents in an acceptable  
10 format, including issues as may arise with respect to obtaining access to any such software and  
11 operating manuals.

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